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NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 43 Feb 13 CANCERLIT is no longer being updated

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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| FULL ESTIMATED COST | ENTRY | SESSION | |
| | 0.21 | 0.21 | |

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FILE 'MEDLINE' ENTERED AT 09:40:58 ON 20 FEB 2003

=> s hedgehog
L1 8674 HEDGEHOG

=> s sonic hedgehog
L2 2929 SONIC HEDGEHOG

=> s SHH
L3 2613 SHH

=> s hair growth
L4 5924 HAIR GROWTH

=> s topical application
L5 23952 TOPICAL APPLICATION

=> s epithelial
L6 351520 EPITHELIAL

=> s skin
L7 756667 SKIN

=> s vertebrate
L8 4053751 VERTEBRATE

=> s 11 and 14 and 15 and 17 and 18
L9 0 L1 AND L4 AND L5 AND L7 AND L8

=> s 11 and 14

L10 24 L1 AND L4

=> d 110 1-24

L10 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2003 ACS
AN 2002:978471 CAPLUS
DN 138:39182
TI Preparation of substituted benzothiophene derivatives as **hedgehog** agonists and regulators of cell proliferation and differentiation
IN Baxter, Anthony David; Boyd, Edward Andrew; Guicherit, Oivin M.; Porter, Jeffery; Price, Stephen; Rubin, Lee; Stibbard, John Harry Alexander
PA UK
SO U.S. Pat. Appl. Publ., 130 pp., Cont.-in-part of U.S. Ser. No. 724,492.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|----------|
| PI US 2002198236 | A1 | 20021226 | US 2001-964276 | 20010926 |
| PRAI US 2000-193279P | P | 20000330 | | |
| US 2000-724492 | A2 | 20001128 | | |
| OS MARPAT 138:39182 | | | | |

L10 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2003 ACS
AN 2002:612915 CAPLUS
TI In vivo enhanced expression of patched dampens the sonic **hedgehog** pathway
AU Bergstein, Ivan; Leopold, Philip L.; Sato, Noboru; Panteleyev, Andrei A.; Christiano, Angela M.; Crystal, Ronald G.
CS Division of Pulmonary and Critical Care Medicine, Division of Hematology-Oncology, Weill Medical College of Cornell University, New York, NY, 10021, USA
SO Molecular Therapy (2002), 6(2), 258-264
CODEN: MTOHCK; ISSN: 1525-0016
PB Elsevier Science
DT Journal
LA English
RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2003 ACS
AN 2002:50171 CAPLUS
DN 137:15381
TI Effect of adenovirus-mediated expression of sonic **hedgehog** gene on hair regrowth in mice with chemotherapy-induced alopecia
AU Sato, Noboru; Leopold, Philip L.; Crystal, Ronald G.
CS Division of Pulmonary and Critical Care Medicine, Weill Medical College of Cornell University, New York, NY, 10021, USA
SO Journal of the National Cancer Institute (2001), 93(24), 1858-1864
CODEN: JNCIEQ; ISSN: 0027-8874
PB Oxford University Press
DT Journal
LA English
RE.CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2003 ACS
AN 2001:749543 CAPLUS
DN 136:35262
TI Noggin is required for induction of the hair follicle growth phase in postnatal skin
AU Botchkarev, Vladimir A.; Botchkareva, Natalia V.; Nakamura, Motonobu; Huber, Otmar; Funa, Keiko; Lauster, Roland; Paus, Ralf; Gilchrest, Barbara

A.
CS Department of Dermatology, Boston University School of Medicine, Boston,
MA, 02118, USA
SO FASEB Journal (2001), 15(12), 2205-2214
CODEN: FAJOEC; ISSN: 0892-6638
PB Federation of American Societies for Experimental Biology
DT Journal
LA English
RE.CNT 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2003 ACS
AN 2001:747593 CAPLUS
DN 135:283224
TI Small organic molecule **hedgehog** agonists as regulators of cell
proliferation and differentiation
IN Baxter, Anthony David; Boyd, Edward Andrew; Guicherit, Oivin M.; Porter,
Jeffrey; Price, Stephen; Rubin, Lee E.
PA Curis, Inc., USA
SO PCT Int. Appl., 246 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI WO 2001074344 | A2 | 20011011 | WO 2001-US10296 | 20010330 |
| WO 2001074344 | A3 | 20020523 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1272168 | A2 | 20030108 | EP 2001-922914 | 20010330 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| PRAI US 2000-193279P | P | 20000330 | | |
| US 2000-724492 | A | 20001128 | | |
| US 2000-724955 | A | 20001128 | | |
| WO 2001-US10296 | W | 20010330 | | |
| OS MARPAT 135:283224 | | | | |

L10 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2003 ACS
AN 2001:611202 CAPLUS
DN 136:244864
TI Characterization of Wnt gene expression in developing and postnatal hair
follicles and identification of Wnt5a as a target of Sonic
hedgehog in hair follicle morphogenesis
AU Reddy, S.; Andl, T.; Bagasra, A.; Lu, M. M.; Epstein, D. J.; Morrissey, E.
E.; Millar, S. E.
CS Departments of Dermatology and Cell and Developmental Biology, University
of Pennsylvania School of Medicine, Philadelphia, PA, 19104, USA
SO Mechanisms of Development (2001), 107(1-2), 69-82
CODEN: MEDVE6; ISSN: 0925-4773
PB Elsevier Science Ireland Ltd.
DT Journal
LA English
RE.CNT 96 THERE ARE 96 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2003 ACS
 AN 2001:209768 CAPLUS
 DN 134:263807
 TI Controls of hair follicle cycling
 AU Stenn, K. S.; Paus, R.
 CS Beauty Genome Sciences Inc., Skillman, NJ, USA
 SO Physiological Reviews (2001), 81(1), 449-494
 CODEN: PHREA7; ISSN: 0031-9333
 PB American Physiological Society
 DT Journal; General Review
 LA English
 RE.CNT 618 THERE ARE 618 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2003 ACS
 AN 2001:208250 CAPLUS
 DN 134:252352
 TI Preparation of 3-aryl-2-arylureidoalkylquinazolin-4-ones and related compounds as mediators of hedgehog signaling pathways.
 IN Baxter, Anthony David; Boyd, Edward Andrew; Guichert, Oivin M.; Price, Stephen; Rubin, Lee D.
 PA Curis, Inc., USA
 SO PCT Int. Appl., 177 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| PI WO 2001019800 | A2 | 20010322 | WO 2000-US25461 | 20000915 |
| WO 2001019800 | A3 | 20011206 | | |
| WO 2001019800 | C2 | 20021003 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1216234 | A2 | 20020626 | EP 2000-963551 | 20000915 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL | | | | |
| PRAI US 1999-154526P | P | 19990916 | | |
| US 1999-159412P | P | 19991014 | | |
| US 1999-162899P | P | 19991101 | | |
| WO 2000-US25461 | W | 20000915 | | |
| OS MARPAT 134:252352 | | | | |

L10 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:368433 CAPLUS
 DN 133:831
 TI Regulation of hair follicle morphogenesis based on .beta.-catenin
 IN Gat, Uri; Dasgupta, Ramanuj; Degenstein, Linda; Fuchs, Elaine
 PA Arch Development Corp., USA
 SO PCT Int. Appl., 127 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------|------|----------|-----------------|----------|
| PI WO 2000031134 | A1 | 20000602 | WO 1999-US27490 | 19991119 |

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
 CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-109284P P 19981120

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2003 ACS

AN 2000:277867 CAPLUS

DN 132:274351

TI Method of modulating hair growth and controlling hair pigmentation based on stimulating or antagonizing the hedgehog protein signal transduction pathway

IN Crystal, Ronald G.; Sato, Noboru; Leopold, Philip L.

PA Cornell Research Foundation, Inc., USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2000023095 | A2 | 20000427 | WO 1999-US24169 | 19991015 |
| | WO 2000023095 | A3 | 20000824 | | |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | US 6159950 | A | 20001212 | US 1998-174506 | 19981016 |
| | EP 1126868 | A2 | 20010829 | EP 1999-970602 | 19991015 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| PRAI | US 1998-174506 | A | 19981016 | | |
| | WO 1999-US24169 | W | 19991015 | | |

L10 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2003 ACS

AN 2000:227528 CAPLUS

DN 132:270066

TI Hedgehog and patched antagonists for inhibiting cell and tissue growth and differentiation and uses thereof

IN Burkly, Linda; Wang, Li Chun

PA Biogen, Inc., USA

SO PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PI | WO 2000018428 | A2 | 20000406 | WO 1999-US20852 | 19990910 |
| | WO 2000018428 | A3 | 20000525 | | |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG | | | | |

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
 UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2343335 AA 20000406 CA 1999-2343335 19990910
 AU 9959186 A1 20000417 AU 1999-59186 19990910
 EP 1112087 A2 20010704 EP 1999-946873 19990910
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 US 2002015702 A1 20020207 US 2001-804490 20010312
 PRAI US 1998-100037P P 19980911
 WO 1999-US20852 W 19990910

L10 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:644628 CAPLUS
 DN 131:335035
 TI Induction of the **hair growth** phase in postnatal mice
 by localized transient expression of sonic **hedgehog**
 AU Sato, Noboru; Leopold, Philip L.; Crystal, Ronald G.
 CS Division of Pulmonary and Critical Care Medicine, Weill Medical College of
 Cornell University-New York Presbyterian Hospital, New York, NY, 10021,
 USA
 SO Journal of Clinical Investigation (1999), 104(7), 855-864
 CODEN: JCINAO; ISSN: 0021-9738
 PB American Society for Clinical Investigation
 DT Journal
 LA English
 RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:644627 CAPLUS
 DN 131:334802
 TI The **hedgehog** and the hair follicle: a growing relationship
 AU Dlugosz, Andrzej
 CS Department of Dermatology and Comprehensive Cancer Center, University of
 Michigan, Ann Arbor, MI, 48109-0932, USA
 SO Journal of Clinical Investigation (1999), 104(7), 851-853
 CODEN: JCINAO; ISSN: 0021-9738
 PB American Society for Clinical Investigation
 DT Journal; General Review
 LA English
 RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:282115 CAPLUS
 DN 130:320865
 TI Regulation of epithelial tissue by **hedgehog-like polypeptides**
 for stimulation of skin or hair formation
 IN Wang, Elizabeth A.
 PA Ontogeny, Inc., USA
 SO PCT Int. Appl., 146 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| PI WO 9920298 | A1 | 19990429 | WO 1998-US22227 | 19981020 |
| W: | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, | | | |

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
 UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 2002151460 A1 20021017 US 1998-151999 19980911
 CA 2307322 AA 19990429 CA 1998-2307322 19981020
 AU 9911089 A1 19990510 AU 1999-11089 19981020
 EP 1028741 A1 20000823 EP 1998-953814 19981020
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 JP 2001520202 T2 20011030 JP 2000-516694 19981020
 PRAI US 1997-955552 A 19971020
 US 1998-151999 A 19980911
 WO 1998-US22227 W 19981020
 OS MARPAT 130:320865

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L10 ANSWER 15 OF 24 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2002:68635 BIOSIS
 DN PREV200200068635
 TI Effect of adenovirus-mediated expression of Sonic **hedgehog** gene
on hair regrowth in mice with chemotherapy-induced alopecia.
 AU Sato, Noboru; Leopold, Philip L.; Crystal, Ronald G. (1)
 CS (1) Institute of Genetic Medicine, Weill Medical College of Cornell
University, 520 East 70th St., Starr 505, New York, NY, 10021:
geneticmedicine@med.cornell.edu USA
 SO Journal of the National Cancer Institute (Bethesda), (December 19, 2001)
Vol. 93, No. 24, pp. 1858-1864. <http://jnci.oupjournals.org/>. print.
ISSN: 0027-8874.
 DT Article
 LA English
- L10 ANSWER 16 OF 24 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2001:492563 BIOSIS
 DN PREV200100492563
 TI Characterization of Wnt gene expression in developing and postnatal hair
follicles and identification of Wnt5a as a target of Sonic
hedgehog in hair follicle morphogenesis.
 AU Reddy, Seshamma; Andl, Thomas; Bagasra, Alexander; Lu, Min Min; Epstein,
Douglas J.; Morrisey, Edward E.; Millar, Sarah E. (1)
 CS (1) M8D Stellar-Chance Laboratories, 422 Curie Boulevard, Philadelphia,
PA, 19104-6100: millars@mail.med.upenn.edu USA
 SO Mechanisms of Development, (September, 2001) Vol. 107, No. 1-2, pp. 69-82.
print.
ISSN: 0925-4773.
 DT Article
 LA English
 SL English
- L10 ANSWER 17 OF 24 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2001:279009 BIOSIS
 DN PREV200100279009
 TI Method of modulating hair growth.
 AU Crystal, Ronald G.; Sato, Noboru (1); Leopold, Philip L.
 CS (1) New York City, NY USA
 ASSIGNEE: Cornell Research Foundation, Inc.
 PI US 6159950 December 12, 2000
 SO Official Gazette of the United States Patent and Trademark Office Patents,
(Dec. 12, 2000) Vol. 1241, No. 2, pp. No Pagination. e-file.
ISSN: 0098-1133.
 DT Patent

LA English

L10 ANSWER 18 OF 24 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:336418 BIOSIS
DN PREV200000336418
TI Induction of the hair growth phase in postnatal mice
by localized transient expression of Sonic hedgehog.
AU Sato, Noboru; Leopold, Philip L.; Crystal, Ronald G. (1)
CS (1) Weill Medical College of Cornell University-New York Presbyterian
Hospital, 520 East 70th Street, ST 505, New York, NY, 10021 USA
SO Journal of Clinical Investigation, (October, 1999) Vol. 104, No. 7, pp.
855-864. print.
ISSN: 0021-9738.
DT Article
LA English
SL English

L10 ANSWER 19 OF 24 MEDLINE
AN 2002407223 MEDLINE
DN 22151587 PubMed ID: 12161193
TI In vivo enhanced expression of patched dampens the sonic hedgehog
pathway.
AU Bergstein Ivan; Leopold Philip; Sato Noboru; Panteleyev Andrei; Christiano
Angela; Crystal Ronald
CS Division of Pulmonary and Critical Care Medicine, Weill Medical College of
Cornell University, New York, New York, 10021, USA.
NC AR 46282 (NIAMS)
SO MOLECULAR THERAPY, (2002 Aug) 6 (2) 258-64.
Journal code: 100890581. ISSN: 1525-0016.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Space Life Sciences
EM 200210
ED Entered STN: 20020806
Last Updated on STN: 20021008
Entered Medline: 20021004

L10 ANSWER 20 OF 24 MEDLINE
AN 2002003693 MEDLINE
DN 21623990 PubMed ID: 11752010
TI Effect of adenovirus-mediated expression of Sonic hedgehog gene
on hair regrowth in mice with chemotherapy-induced alopecia.
AU Sato N; Leopold P L; Crystal R G
CS Division of Pulmonary and Critical Care Medicine, Weill Medical College of
Cornell University, New York, NY 10021, USA.
NC R01AR46282-01A1 (NIAMS)
SO JOURNAL OF THE NATIONAL CANCER INSTITUTE, (2001 Dec 19) 93 (24) 1858-64.
Journal code: 7503089. ISSN: 0027-8874.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200201
ED Entered STN: 20020102
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Entered Medline: 20020123

L10 ANSWER 21 OF 24 MEDLINE
AN 2001564857 MEDLINE
DN 21521210 PubMed ID: 11641247
TI Noggin is required for induction of the hair follicle growth phase in
postnatal skin.
AU Botchkarev V A; Botchkareva N V; Nakamura M; Huber O; Funa K; Lauster R;

CS Paus R; Gilchrest B A
Massachusetts 02118, USA.. vladbotc@bu.edu

NC 1R03 AR47414 01 (NIAMS)

SO FASEB JOURNAL, (2001 Oct) 15 (12) 2205-14.
Journal code: 8804484. ISSN: 1530-6860.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200112

ED Entered STN: 20011023
Last Updated on STN: 20020420
Entered Medline: 20011204

L10 ANSWER 22 OF 24 MEDLINE
AN 2001477516 MEDLINE
DN 21412236 PubMed ID: 11520664
TI Characterization of Wnt gene expression in developing and postnatal hair follicles and identification of Wnt5a as a target of Sonic hedgehog in hair follicle morphogenesis.
AU Reddy S; Andl T; Bagasra A; Lu M M; Epstein D J; Morrisey E E; Millar S E
CS Departments of Dermatology and Cell and Developmental Biology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104, USA.
SO MECHANISMS OF DEVELOPMENT, (2001 Sep) 107 (1-2) 69-82.
Journal code: 9101218. ISSN: 0925-4773.

CY Ireland

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200112

ED Entered STN: 20010827
Last Updated on STN: 20020122
Entered Medline: 20011204

L10 ANSWER 23 OF 24 MEDLINE
AN 2001108760 MEDLINE
DN 21068090 PubMed ID: 11152763
TI Controls of hair follicle cycling.
AU Stenn K S; Paus R
CS Beauty Genome Sciences Inc., Skillman, New Jersey, USA.. kstenn@cpcus.jnj.com
SO PHYSIOLOGICAL REVIEWS, (2001 Jan) 81 (1) 449-494. Ref: 619
Journal code: 0231714. ISSN: 0031-9333.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 200102

ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010208

L10 ANSWER 24 OF 24 MEDLINE
AN 1999441307 MEDLINE
DN 99441307 PubMed ID: 10510326
TI Induction of the hair growth phase in postnatal mice by localized transient expression of Sonic hedgehog.
CM Comment in: J Clin Invest. 1999 Oct;104(7):851-3
AU Sato N; Leopold P L; Crystal R G
CS Division of Pulmonary and Critical Care Medicine, Weill Medical College of Cornell University-New York Presbyterian Hospital, New York, New York

10021, USA.
SO JOURNAL OF CLINICAL INVESTIGATION, (1999 Oct) 104 (7) 855-64.
Journal code: 7802877. ISSN: 0021-9738.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 199911
ED Entered STN: 20000111
Last Updated on STN: 20000111
Entered Medline: 19991102